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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/915,028	07/25/2001	Hassan K. Sreenath	096429-9108	7045	
23510 7590 01/17/2003 MICHAEL BEST & FRIEDRICH, LLP ONE SOUTH PINCKNEY STREET P O BOX 1806			EXAMINER		
			PRATS, FRANCISCO CHANDLER		
MADISON, V	VI 53701		ART UNIT	PAPER NUMBER	
			1651 DATE MAILED: 01/17/2003	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application No.		Applicant(s)					
		09/915,028	•	SREENATH, HASSAN K.					
	Office Action Summary	Examiner		Art Unit					
		Francisco C Prat		1651	*				
	The MAILING DATE of this communication ap	pears on the cove	r sheet with the c	orrespondence ad	dress				
Period fo	r Reply								
THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period for the provided period for reply will, by stature to reply within the set or extended period for reply will, by stature ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how by within the statutory mind will apply and will expire	ever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.				
Status	- in the second section (a) filed on 20	November 2002							
1)⊠	Responsive to communication(s) filed on 20	his action is non-							
2a) <u></u> □				rosecution as to t	ne merits is				
3) 🗌	Since this application is in condition for allow closed in accordance with the practice under	er Ex parte Quayle	, 1935 C.D. 11,	453 O.G. 213.					
Disposit	ion of Claims								
4)⊠	Claim(s) 1-13 is/are pending in the application								
	4a) Of the above claim(s) 6-13 is/are withdrawn from consideration.								
5)[Claim(s) is/are allowed.								
6)⊠	⊠ Claim(s) <u>1-5</u> is/are rejected.								
	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction and	or election requir	ement.						
	tion Papers								
9)[The specification is objected to by the Exami	ner.							
10)[The drawing(s) filed on is/are: a) acc	cepted or b) obje	cted to by the Ex	aminer. See 37 CEB 1 85/3					
	Applicant may not request that any objection to	the drawing(s) be h	eld in abeyance.	see 37 CFR 1.65(a)	ner				
11)	The proposed drawing correction filed on			TOVED by the Exami	1161.				
	If approved, corrected drawings are required in		action.						
-	The oath or declaration is objected to by the	Examiner.	•						
Priority	under 35 U.S.C. §§ 119 and 120		051100 \$ 440	(a) (d) or (f)					
13)[ign priority under	35 U.S.C. § 119	(a)-(u) or (i).					
а) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority docume	ents have been re	ceived.	-ti Nie					
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	list of the certified	copies not recei	ved.					
14)🖂	Acknowledgment is made of a claim for dome	estic priority under	· 35 U.S.C. § 119	9(e) (to a provision	nal application).				
15)	a) The translation of the foreign languageAcknowledgment is made of a claim for dom	provisional applic estic priority unde	ation has been r r 35 U.S.C. §§ 1	eceived. 20 and/or 121.					
Attachm	ent(s)		-		M- (-)				
2) 🗆 No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO-1449) Paper No(4) [5) s) <u>3, 4</u> . 6)	Notice of Inform	ary (PTO-413) Paper al Patent Application (No(s) PTO-152)				
U.S. Patent an	d Trademark Office	e Action Summary		Pa	rt of Paper No. 8				

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DETAILED ACTION

Claims 1-13 are pending.

Election/Restrictions

Applicant's election without traverse of the group I invention, claims 1-5, in Paper No. Paper No. 7, filed November 20, 2002 (certificate of mailing November 14, 2002) is acknowledged.

Claims 6-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. As discussed immediately above, election was made without traverse in Paper No. 7.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lacoste-Bourgeacq et al (U.S. Pat. 6,042,853) in view of Etchells et al (U.S. Pat. 3,410,755).

Lacoste-Bourgeacq discloses the digestion of sausage casings, including spent sausage casings, using cellulase enzyme, whereby a solution containing monosaccharides including glucose is produced. See column 3, lines 4-12. Lacoste-Bourgeacq differs from claims 1-5 in that Lacoste-Bourgeacq does not disclose the fermentation of the glucose-containing sausage casing hydrolysate to lactic acid. However, the fermentation of glucose to lactic acid by the claimed microorganisms is an extremely well-known process. Etchells discloses that the claimed microorganisms were known at the time of applicant's invention to produce lactic acid from glucose. See, e.g., column 1, lines 52-59, as well Table I at column 4.

Thus, the artisan of ordinary skill, recognizing the glucose-containing cellulase-hydrolyzed sausage casing solution of Lacoste-Bourgeacq to be a suitable carbon source for the lactic acid producing microorganisms of Etchells, clearly would have been motivated to have used the glucose-containing cellulase-hydrolyzed sausage casing solution of Lacoste-Bourgeacq as a carbon source for the lactic acid producing microorganisms of Etchells. Additional motivation would have

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been derived from the fact that rather than simply discarding the cellulase-hydrolyzed solution of Lacoste-Bourgeacq as discussed at column 3, lines 9-11, the artisan of ordinary skill would have reasonably expected that the glucose-containing solution would have been useful as a carbon source for lactic acid producing bacteria, with minimal processing. A holding of obviousness is therefore required.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lacoste-Bourgeacq et al (U.S. Pat. 6,042,853) in view of Etchells et al (U.S. Pat. 3,410,755), as applied to claims 1-4 above, and further in view of Chahal (U.S. Pat. 5,047,332), Madamwar et al (J. Ferment. Bioengineer. 67(6):424-426 (1989)), and Ono (U.S. Pat. 3,232,832).

As discussed above, when viewed in light of Etchells,
Lacoste-Bourgeacq suggests the process recited in claims 1-4.

Claims 4 and 5 contain embodiments requiring the cellulase
enzyme to be produced by solid state fermentation (SSF) of
certain microorganisms, such a process is not disclosed or
suggested by Etchells and Lacoste-Bourgeacq, viewed by
themselves. However, each of Chahal (*T. reesei*, column 10, line
40 through column 11, line 35) and Madamwar (*A. niger*, see whole
document) discloses that it is advantageous to produce cellulase

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produce glucose for use in subsequent fermentations. Thus, applicant's claimed use of SSF for producing cellulase to be used in digestion of waste cellulosic sausage casings must be considered obvious. Lastly, although Ono does not directly disclose the use of SSF to produce cellulase from R. oryzae, Ono makes it clear that R. oryzae was well known at the time of applicant's invention to produce cellulase. In view of the advantageousness of using SSF to produce cellulase from known cellulase-producing organisms, disclosed by Chahal and Madamwar, the artisan of ordinary skill would have been motivated to have used the methods of Chahal and Madamwar to produce cellulase from R. oryzae. A holding of obviousness is therefore required.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Francisco C Prats whose telephone number is 703-308-3665. The examiner can normally be reached on Monday through Friday, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G Wityshyn can

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be reached on 703-308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Francisco C Prats Primary Examiner Art Unit 1651

FCP January 15, 2003